

FACTORING

$$2x^2 + 20x + 30 = 2(x^2 + 10x + 15) \quad \begin{matrix} x+5=0 \\ x=-5 \end{matrix}$$

#26
p. 296

$$x^2 - 26x + 48 = 0$$

GUESS: -24, -2

CHECK

$$\text{ADD } -24 + -2 = -26$$

$$\text{MULTIPLY } (-24)(-2) = 48$$

$$(x - 24)(x - 2) = 0$$

$$x - 24 = 0$$

$$x = 24$$

$$x - 2 = 0$$

$$x = 2$$

$$a^2 + 2ab + b^2 = (a + b)(a + b)$$

$$a^2 - 2ab + b^2 = (a - b)(a - b)$$

$$a^2 - b^2 = (a - b)(a + b)$$